

Figure 1

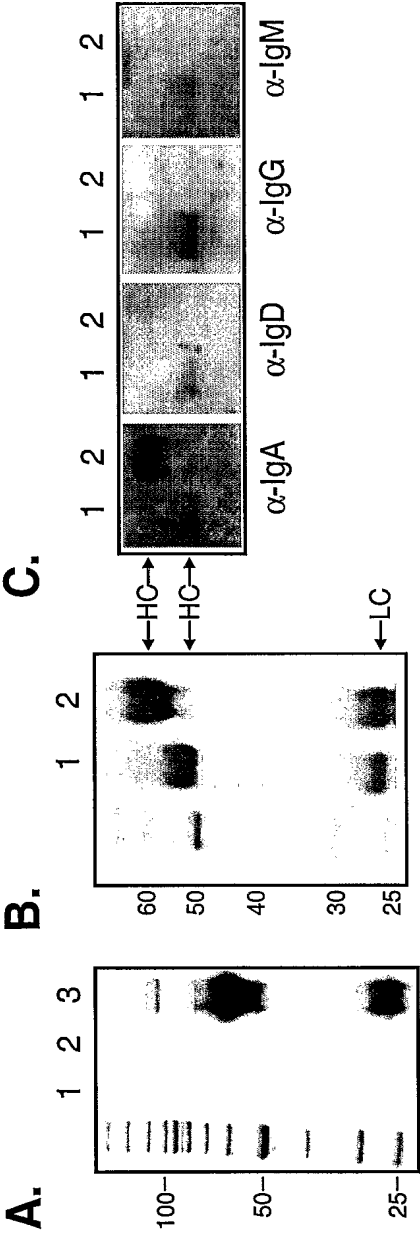


Figure 2

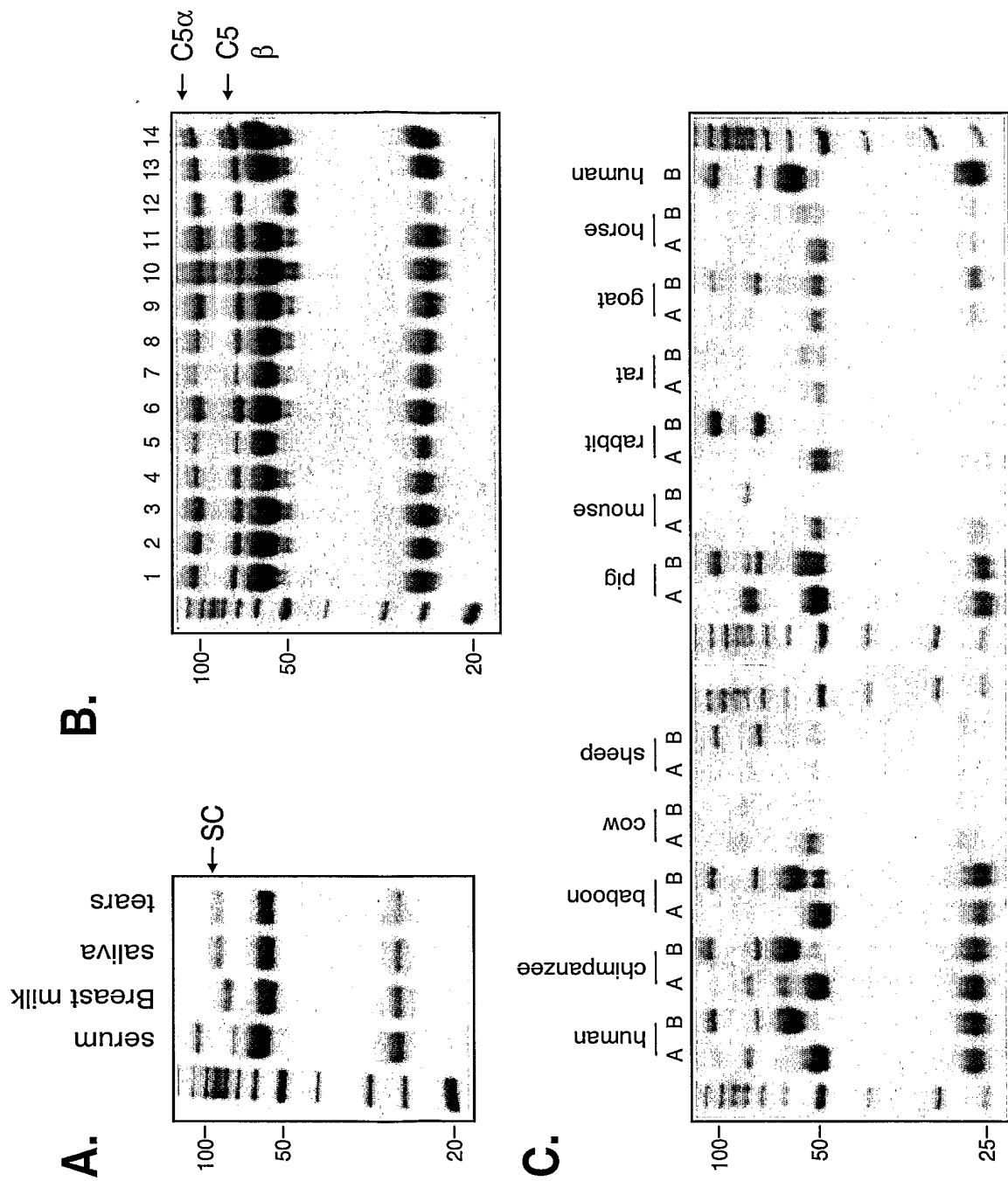


Figure 3

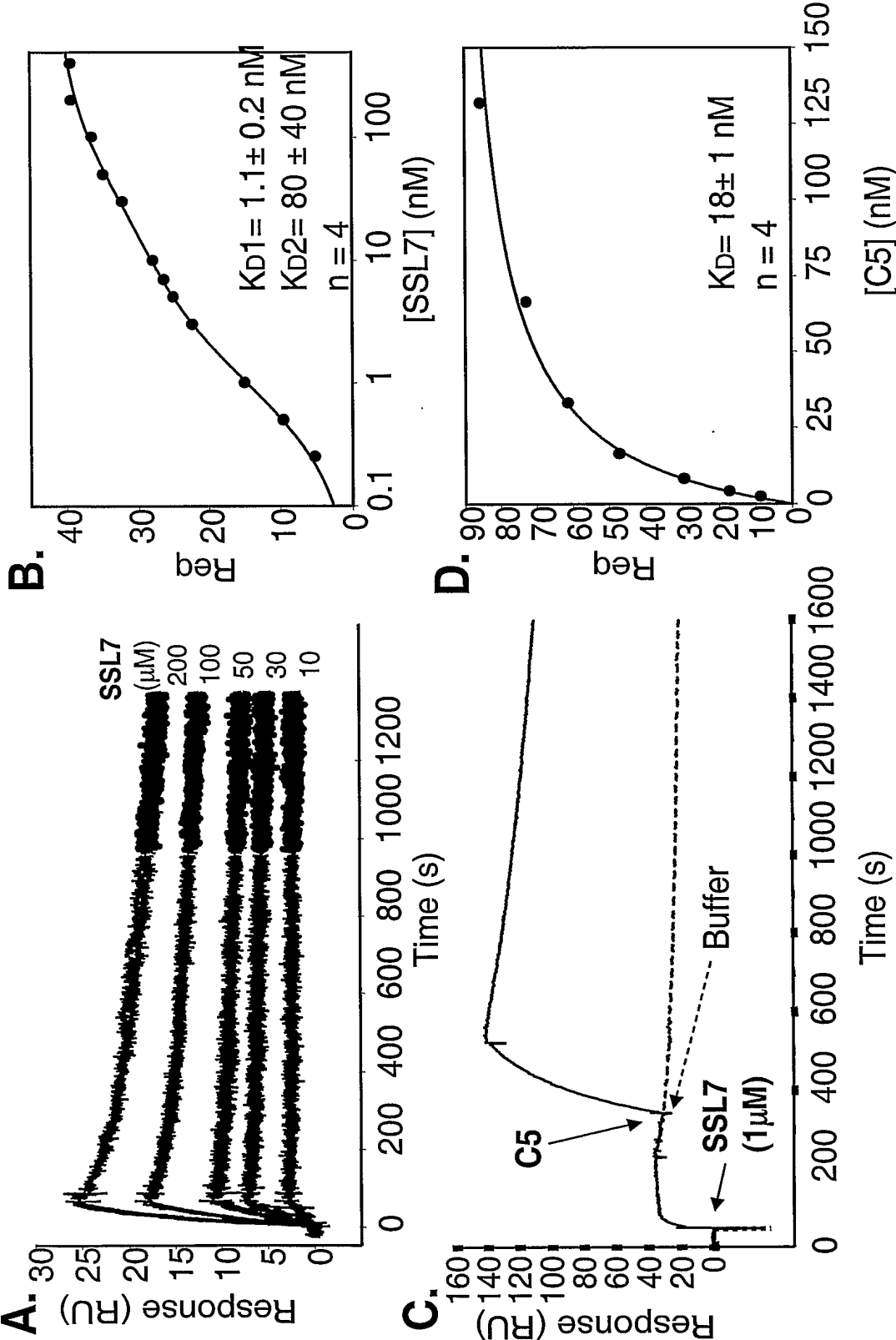


Figure 4

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A.

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SSL7_GL10                KEKQERVQHLYDIKDLHRYYSSESSEFDFSNISGKVENYNGSNVVRFNQDQNHQLFLLGKD
SSL7_GL1                 KEKQERVQHLYDIKDLHRYYSSESSEFDFSNISGKVENYNGSNVVRFNQEKQNHQLFLLGED
SSL7_MW2                 KEKQERVQHLYDIKDLHRYYSSESSEFDFSNISGKVENYNGSNVVRFNQENQNHQLFLLSGKD
SSL7_NCTC8325           KEKQERVQHLYDIKDLHRYYSSESSEFDFSNISGKVENYNGSNVVRFNQENQNHQLFLLGKD
SSL7_Mu50                KEKQERVQHLYDIKDLRYYSSESSEFDFSNISGKVENYNGSNVVRFNQEKQNHQLFLLGKD
SSL7_N315                KEKQERVQHLYDIKDLRYYSSESSEFDFSNISGKVENYNGSNVVRFNQEKQNHQLFLLGKD
SSL7_NCTC6571           AEKQERVQHLHDIRDLHRYYSSESSEFDFSNISGKVENYNGSNVVRFNPKDQNHQLFLLGKD
                        *****;*:*:*:*****;*:*****:***** *:*

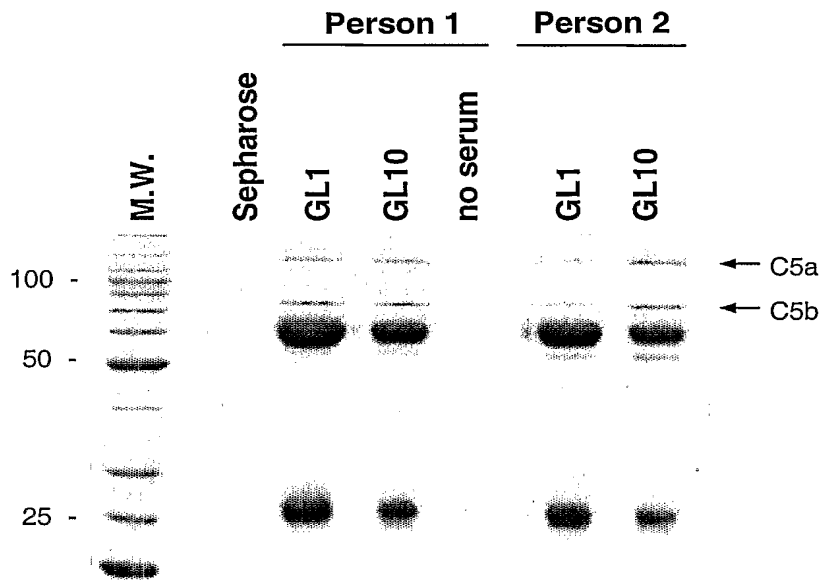
SSL7_GL10                KAKYKQGLEGQNVFVVKELIDPNGRRLSTVGGVTCKNNQSSETNTPLFVKKVYGGNLDASI
SSL7_GL1                 KAKYKQGQLQGQDVFVVKELIDPNGRRLSTVGGVTCKNNQSSETNIHLHLNKLDDGGNLDATN
SSL7_MW2                 KDKYKEGLEGQNVFVVKELIDPNGRRLSTVGGVTCKNNQSSETNTPLFVKKVYGGNLDASI
SSL7_NCTC8325           KEKYKEGLEGQDVFVVKELIDPNGRRLSTVGGVTCKNNKSSETNTHLFLVNKVYGGNLDASI
SSL7_Mu50                KDKYKKGLEGQNVFVVKELIDPNGRRLSTVGGVTCKNNKSSETNTHLFLVNKVYGGNLDASI
SSL7_N315                KDKYKKGLEGQNVFVVKELIDPNGRRLSTVGGVTCKNNKSSETNTHLFLVNKVYGGNLDASI
SSL7_NCTC6571           KEQYKKGLEGQNVFVQBELIDPNGRRLSTVGGVTCKNNKTSETNTPLFVNKVNGBDLDASI
                        *:*:*:*:*:*****:***** *:::* *:*:*

SSL7_GL10                ESFSINKEEVSLKELDFKIRQHVLVKNYGLYKGTTKYKGKITFNLKDGEKKEIDLGDKLQFE
SSL7_GL1                 DSFLINKEEVSLKELDFKIRKQLVEKYGLYQGTSKYKGKITIILNGGKQQEIDLGDKLQFE
SSL7_MW2                 ESFLINKEEVSLKELDFKIRQHVLVKNYGLYKGTTKYKGKITFNLKDGEKQEIDLGDKLQFE
SSL7_NCTC8325           DSFSINKEEVSLKELDFKIRQHVLVKNYGLYKGTTKYKGKITINLKDGEKQEIDLGDKLQFE
SSL7_Mu50                DSFLINKEEVSLKELDFKIRKQLVEKYGLYKGTTKYKGKITINLKDEKKEVIDLGDKLQFE
SSL7_N315                DSFLINKEEVSLKELDFKIRKQLVEKYGLYKGTTKYKGKITINLKDEKKEVIDLGDKLQFE
SSL7_NCTC6571           DSFLIQKEEISLKELDFKIRQQLVNNYGLYKGTSKYKGKIIINLKDENKVEIDLGDKLQFE
                        *:*:*:*:*****:*****:*****;*:*****:***** *:::* *****

SSL7_GL10                HMGDVLNSKDIQNIAVTLKQI
SSL7_GL1                 RMGDVLNSKDINKIEVTLKQI
SSL7_MW2                 HMGDVLNSKDIQNIAVTINQI
SSL7_NCTC8325           RMGDVLNSKDINKIEVTLKQI
SSL7_Mu50                RMGDVLNSKDIQNIAVTINQI
SSL7_N315                RMGDVLNSKDIQNIAVTINQI
SSL7_NCTC6571           RMGDVLNSKDIRGISVTINQI
                        :***** * *:::*

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B.



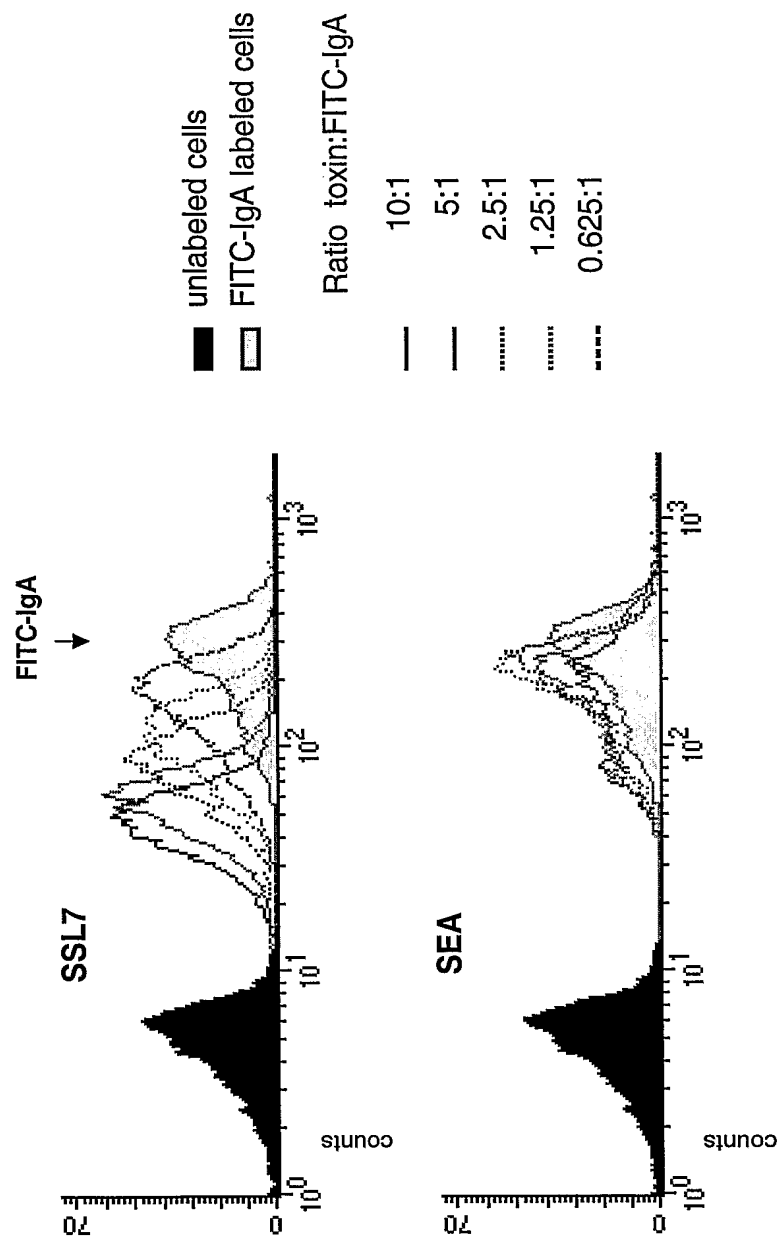


Figure 6

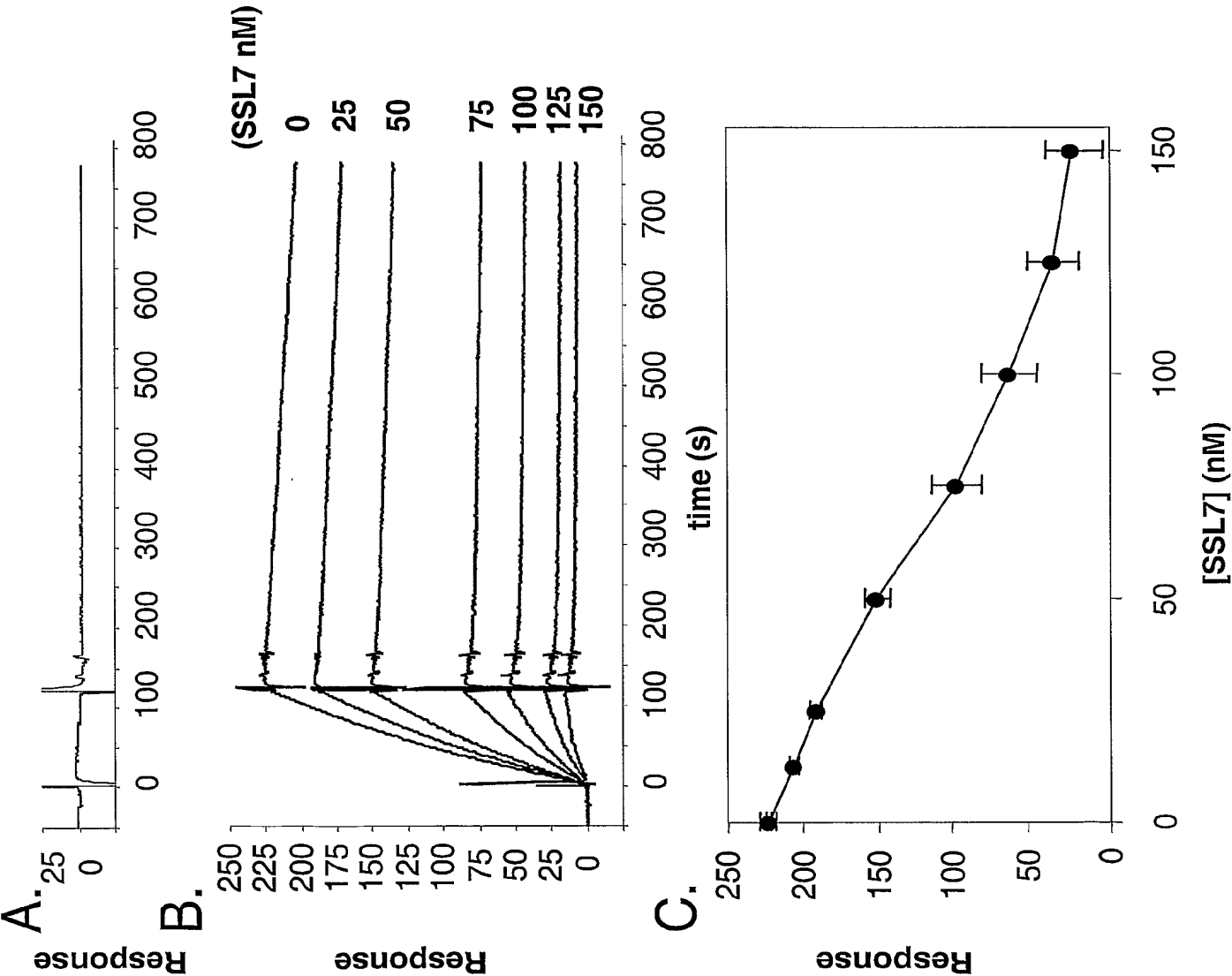


Figure 7

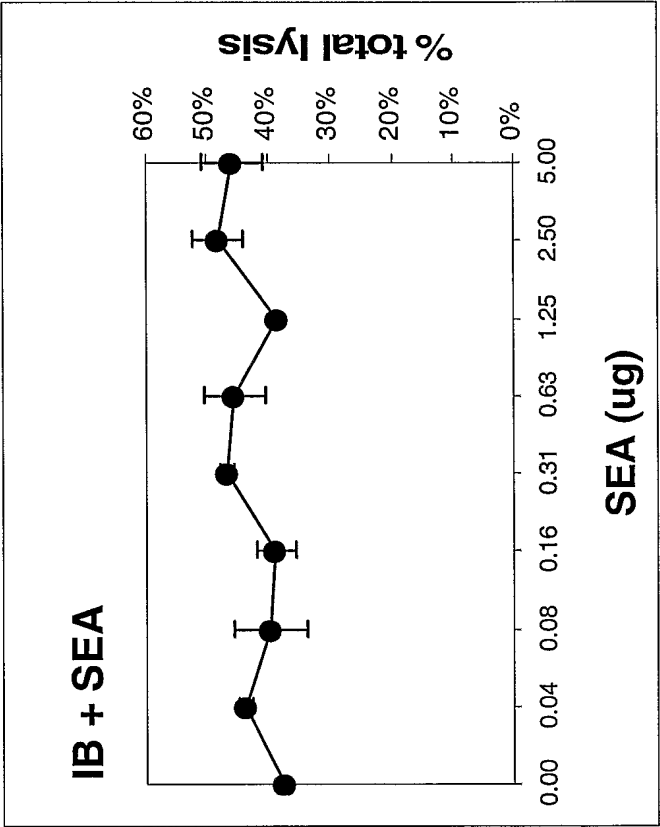
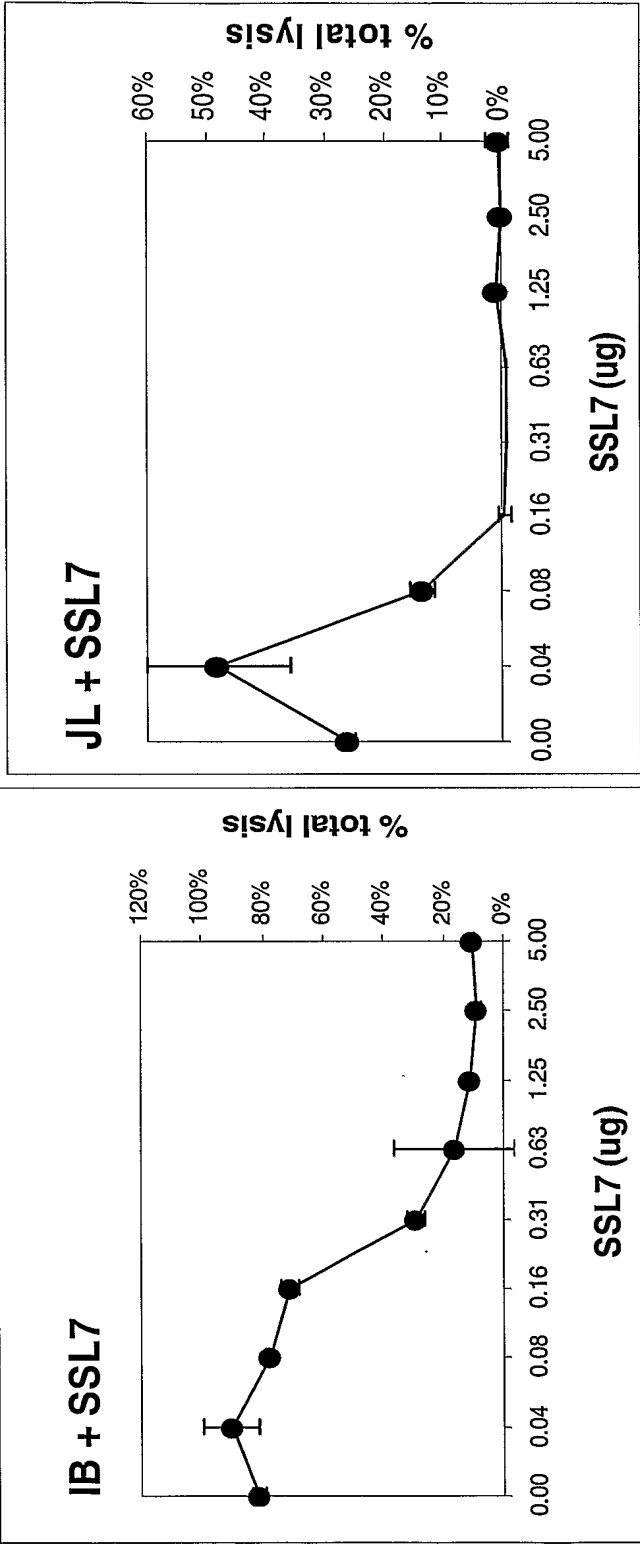
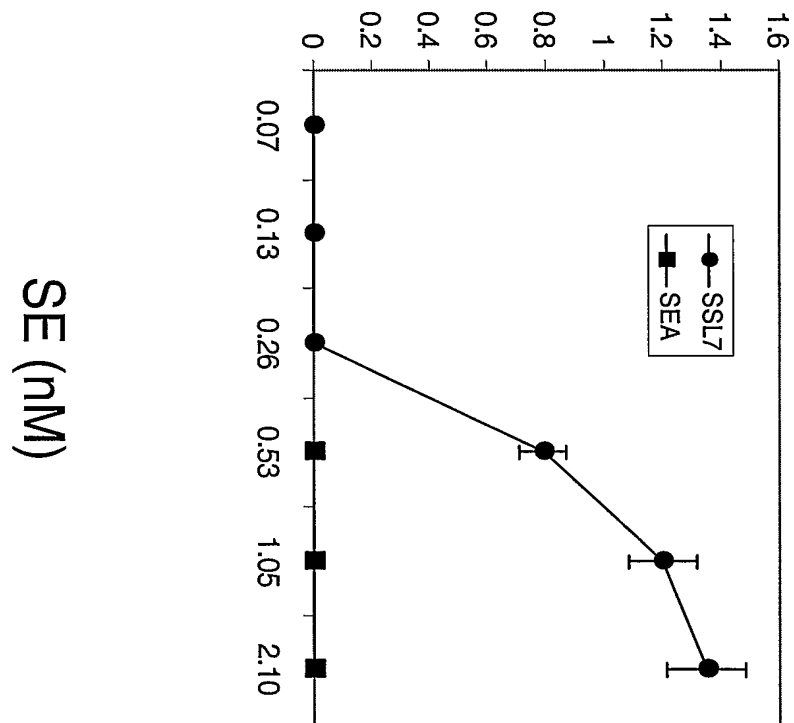


Figure 8

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Bacterial Survival (cfu x 10⁻⁶)

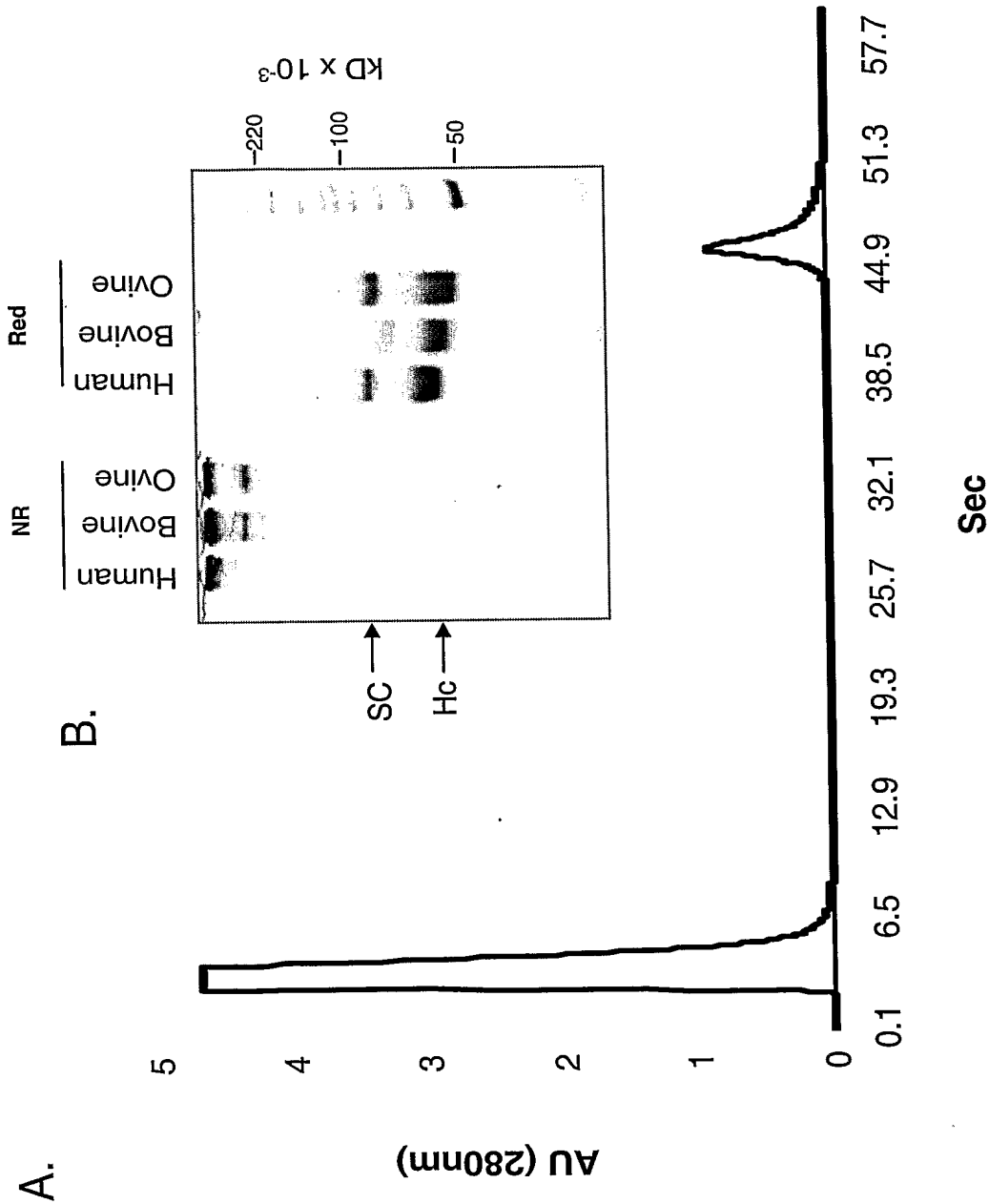


Figure 10